

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 August 2006 (10.08.2006)

PCT

(10) International Publication Number
WO 2006/083064 A1

(51) International Patent Classification:
H05B 41/26 (2006.01)

Banlim-dong, Changwon-shi, Kyungsangnam-do 641-180 (KR).

(21) International Application Number:
PCT/KR2005/001881

(74) Agents: LEE, Hoon et al.; 649-14, Yeoksma-Dong Gangnam-Gu, Seoul 135-080 (KR).

(22) International Filing Date: 17 June 2005 (17.06.2005)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2005-0009343 2 February 2005 (02.02.2005) KR

(71) Applicant (for all designated States except US): GLORIA TECHNIQUES SERVICE CO., LTD. [KR/KR]; 102-3, Shinchon-dong Changwon-shi, Kyungsangnam-do 641-370 (KR).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: KWON, Oh Young [KR/KR]; 302-1603, Sungwon Apt. Sangnam-dong, Changwon-shi, Kyungsangnam-do 641-010 (KR).

(72) Inventor; and

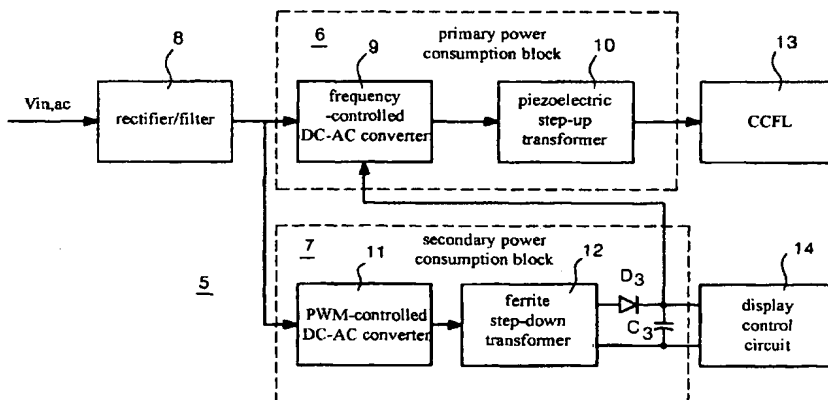
(75) Inventor/Applicant (for US only): GOLOVTCHAN-SKI, Alexandre [RU/KR]; 213-504, Hyundai Apt.

Published:

— with international search report

[Continued on next page]

(54) Title: HYBRID POWER SUPPLY SYSTEM



(57) Abstract: A hybrid power supply system including piezoelectric and ferrite transformers for driving a discharge lamp is provided. Specifically, the hybrid power supply system includes a rectifier/filter, a piezoelectric inverter, and a ferrite converter. The rectifier/filter has an input terminal connected to an external AC voltage to convert the external AC voltage to a DC voltage. The piezoelectric inverter is connected to the rectifier/filter to step up and convert the DC voltage to an AC voltage for driving the discharge lamp. The ferrite transformer is connected to the rectifier/filter to step down the DC voltage to a rated DC voltage for driving discharge lamp circuits other than the discharge lamp. The piezoelectric inverter and the ferrite converter are integrated by connecting a primary side of the piezoelectric step-up transformer and a primary side of the ferrite step-down transformer in series or in parallel with an output terminal of switching circuits.

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